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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,251	03/23/2004	Youji Maruyama	16869G-101200US	4216	
20350	7590 11/28/2006		EXAMINER		
	O AND TOWNSEND A	CASTRO, ANGEL A			
TWO EMBAI EIGHTH FLO	RCADERO CENTER OOR		ART UNIT	PAPER NUMBER	
SAN FRANC	ISCO, CA 94111-3834		2627		
			DATE MAILED: 11/28/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No. Applicar		plicant(s)	nt(s)		
		10/808,251	MA	MARUYAMA ET AL.			
		Examiner	Art	Art Unit			
		Angel A. Castro	262	27			
The MAILING DATE of this Period for Reply	communication app	ears on the cover sh	eet with the corre	spondence add	dress		
A SHORTENED STATUTORY PE WHICHEVER IS LONGER, FROM  - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date  - If NO period for reply is specified above, the Failure to reply within the set or extended per Any reply received by the Office later than the earned patent term adjustment. See 37 CFR	M THE MAILING DA e provisions of 37 CFR 1.13 of this communication. maximum statutory period w riod for reply will, by statute, ree months after the mailing	ATE OF THIS COMI 36(a). In no event, however, vill apply and will expire SIX cause the application to be	MUNICATION.  may a reply be timely fil  (6) MONTHS from the m  come ABANDONED (35	led nailing date of this con 5 U.S.C. § 133).			
Status							
<ol> <li>Responsive to communicate</li> <li>This action is FINAL.</li> <li>Since this application is in a closed in accordance with the</li> </ol>	2b)⊠ This condition for allowar	action is non-final. nce except for forma	• •		merits is		
Disposition of Claims							
4) ⊠ Claim(s) <u>1-22</u> is/are pending 4a) Of the above claim(s) <u>3</u> , 5) ☐ Claim(s) is/are allow 6) ☒ Claim(s) <u>1,2,5,6,12,13,16 a</u> 7) ☐ Claim(s) is/are object 8) ☐ Claim(s) are subject	4,7-11,14,15 and 16 ed. nd 17 is/are rejected ted to.	<u>8-22</u> is/are withdraw d.		tion ,			
Application Papers							
9) ☐ The specification is objected 10) ☑ The drawing(s) filed on 23 № Applicant may not request that Replacement drawing sheet(s) 11) ☐ The oath or declaration is obtained.	farch 2004 is/are: a any objection to the o including the correcti	a) accepted or b) [drawing(s) be held in a sion is required if the di	abeyance. See 37 rawing(s) is objecte	CFR 1.85(a). d to. See 37 CF	R 1.121(d).		
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing  3) Information Disclosure Statement(s) (PT Paper No(s)/Mail Date		. Pap	erview Summary (PTC ler No(s)/Mail Date lice of Informal Patent er:	·			

#### **DETAILED ACTION**

#### Election/Restrictions

- 1. Applicant's election without traverse of Species 1 in the reply filed on 10/31/06 is acknowledged.
- 2. Claims 3-4, 7-11, 14-15, 18-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 10/31/06.

## **Drawings**

- 3. Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "flare structure" of claims 1, 5, 12 and 16; and "insulating film" of claims 2 and 13; must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-2, 5-6, 12-13 and 16-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Stoev et al (U.S. Pat. 6,724,572).

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Regarding claims 1, 5, 12 and 16, Stoev et al discloses a magnetic head (figures 3 or 4) having a write function, comprising:

a lower core 108, 110, including a plurality of layers;

an upper core 72 including a plurality of layers;

a lower core edge layer 64, included in the lower core; and

an upper core edge layer 68 included in the upper core, the lower core edge layer and the upper core edge layer defining a write gap on a side of an air bearing surface;

wherein the lower core except for the lower core edge layer is recessed from the air bearing surface of the magnetic head and has a flare structure.

Regarding claims 2 and 13, Stoev et al discloses that an insulating film 45 is formed on the lower core except for the lower core edge layer on a side of the air bearing surface.

Regarding claims 6 and 17, Stoev et al discloses that a patterned magnetic material 110 is formed between the first lower pole piece and the second lower pole piece, and the first lower pole piece is recessed from a facet of the patterned magnetic material on a side of the air bearing surface of the magnetic head (see figure 4).

#### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Angel Castro, Ph.D.